

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

**INFORMATION DISCLOSURE
STATEMENT**

Docket Number
10020/18103

Application Number
To be assigned

Filing Date
Herewith

Examiner
To be assigned

Art Unit
To be assigned

Invention Title
**PHOSPHORESCENT ORGANIC LIGHT
EMITTING DEVICES**

Inventor(s)
ADACHI et al.

Address to:
Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

1. In accordance with the duty of disclosure under 37 C.F.R. § 1.56 and in conformance with the procedures of 37 C.F.R. §§ 1.97 and 1.98 and M.P.E.P. § 609, attorneys for Applicants hereby bring the following references to the attention of the Examiner. The references are listed on the attached modified PTO Form No. 1449. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.
2. A copy of each patent, publication or other information listed on the modified PTO form 1449 is not enclosed (*unless otherwise noted*) since they were previously cited by or submitted to the Patent Office in prior application Serial No. **09/629,335**, filed **August 1, 2000**, which is relied upon for an earlier filing date under 35 U.S.C. 120.

Dated: October 31, 2003

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT PTO-1449	DOCKET NO. 10020/18103	SERIAL NO. To be assigned
	APPLICANT ADACHI et al.	
	FILING DATE Herewith	GROUP To be assigned

U. S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS	SUBCLASS	FILING DATE*
	5,703,436	December 30, 1997	Forrest et al.			
	5,707,745	January 13, 1998	Forrest et al.			
	6,013,538	January 11, 2000	Burrows et al.			
	6,303,238	October 2001	Thompson et al.			
	5,281,489	January 1994	Mori et al.			
	6,242,115	June 2001	Thomson et al.			
	5,294,810	March 15, 1994	Egusa et al.			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS

EXAMINER INITIAL		AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
		C.W. Tang, et al., "Organic Electroluminescent Diodes", 51 <u>Appl. Phys. Lett.</u> , 913 (1987)
		S.R. Forrest, et al., "Organic Emitters Promise a New Generation of Displays", <u>Laser Focus World</u> , (Feb. 1995)
		Baldo, et al., "Very high efficiency green organic light-emitting devices based on electrophosphorescence", 75 <u>Applied Physics Letters</u> , 4-6, (1999).
		C.H. Chen, et al., "Recent developments in molecular organic electroluminescent materials", <u>Macromolecular Symposia</u> , 125, 1-48 (1997).
		M.A. Baldo, et al., "Highly efficient phosphorescent emission from organic electroluminescent devices", <u>Nature</u> , Vol. 395, 151-154, (September 1998).
		D.L. Dexter, "A Theory of Sensitized Luminescence in Solids", <u>J. Chem. Phys.</u> , 1953, 21, pp. 836-850.
		Takada et al., "Strongly Directed Emission from Controlled-Spontaneous-Emission Electroluminescent Diodes with Europium Complex as an Emitter", <u>Japanese J. Appl. Phys.</u> , L863 (June 15, 1994), pp. 33.
		Charles, et al., "Infrared Absorption spectra of metal chelates derived from...", <u>Spectrochimica Acta</u> , v. 8 (1956), pp. 1-8.

EXAMINER INITIAL		AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
		Chen et al., "Metal chelates as emitting materials for organic electroluminescence", <u>Coord. Chem. Rev.</u> , v. 171 (May 1998), pp. 161-174.
		Dirr et al., "Vacuum-deposited thin films of lanthanide complexes: Spectral properties and application in organic light emitting diodes", <u>SID 97 Digest</u> , First Edition (May 1997), pp. 778-781.
		Kido et al., "Organic electroluminescent devices using lanthanide complexes", <u>Journal of Alloys and Compounds</u> , Vol. 192 (1993), pp. 30-33.
		Kido, et al., "White-light-emitting organic electroluminescent device using lanthanide complexes", <u>Jpn. J. Appl. Phys.</u> , V. 35 (1996), pp. L394-L396.
		M. Klesinger, et al., <u>Excited States and Photochemistry of Organic Molecules</u> , VCH Publishers, Inc., 1995, pp. 260-271 and 295-297.
		I.G. Hill et al., "Determination of the energy levels of a phosphorescent guest in organic light emitting devices", <u>Applied Physics Letters</u> , Vol. 77, No. 13, pp. 2003-2005 (September 25, 2000).
		Akiyama et al., U.S. Patent Application Publication No. 2002/0146589, published October 10, 2002.
		S.L. Murov et al., "Handbook of Photochemistry", 2 nd Edition, Marcel Dekker, Inc., New York, 1993, pp. 1-3 and 54-55.
		Y. Kunugi, et al., "A Vapochromic LED", <u>J. Am. Chem. Soc.</u> , Vol. 120, No. 3, pp. 589-590, 1998.

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	